

Daily status 7 Jan

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(sorry for my typo on the last status header I sent out and for no status messages the last 2 days)

Still in IOP5

Based on previous 48 hour WWW plots, "now" readings from this morning using S+, and other information

On site: Dong, Oncley

Weather: low overcast, light snow overnight and wet(!) roads. Seems warmer than the -8C reported at most stations.

Summary: All sensor outages addressed, except for Playa1 aux soil site which was deliberately uninstalled

Sun Photometer installed yesterday at River7

All kryptons currently frost covered and are reading 0.

All 10m kryptons have not been cleaned recently, but still have acceptable signal levels. We would have to disrupt flux data during this (long) IOP5 to service these.

Vdsm: ok, lowest values 12.1-12.4V batteries fully charged yesterday

Vmote.rad: ok. lowest values 12.6-13.0 V

Vmote.soil(aux): ok, lowest values 12.4-13.0.

Current Conditions:

P: ok 850 to 880 mb now, slightly falling.

Tbaro:

T: ok -12 to -7 degC now. At least Playa1 get frost during the night

RH: 85 to 97% now

Q: ok

Rainr (3,4,6): Tips at Wslope6 yesterday was servicing. Wvally4 tips probably not real or current.

Spd (1,6): <1 m/s now. Seems low at Wslope6 starting 4 Jan ~2200. Didn't notice anything obvious when shooting its boom angle yesterday.

Dir (1,6): ok, variable

csat diag: ok. A few spikes overnight at Wslope6

samples.sonic: real-time data show dropped samples esp at night, maybe ok in archived data set

spd: ok, ~1 m/s now

dir: ok, variable across the network

u'u': ok, 0 to 0.7 m²/s² dominated by events at abc2 and river7 yesterday

v'v': ok, 0 to 0.8 m²/s² "

w'w': ok, 0 to 0.4 m²/s² "

u*: ok, 0 to 0.4 m/s

sigma_w/u*: ok.

tc: ok, -12 to -8 now degC

tc'tc': ok < 1.8 degC²; huge nighttime values at wslope6, playa1, river7 -- are these real?

w'tc': ok, -0.03 to 0.08 m/s degC

kh2oV: all ~0 now with frost. During day, 1 and 6 now >2V after recent cleanings. Others 0.7-1.2V.

kh2o'kh2o': daytime very small

w'kh2o': small values during day; night values larger, likely frost related

Rsw.in: ok, daytime 300-600 W/m² yesterday

Rsw.out: ok, daytime 250-400 W/m² (snow cover at all sites)

albedo: ok, 0.6-0.9 at all sites, some with sun angle dependence

Rsw.dfs (1,7): up to 350 W/m² at Playa, 70 at River (does Playa need to be adjusted?); SPN-1 now at River and agrees with shadowband

Rsw.global (1,7): up to 500 W/m²

Rlw.in: ok, 200-280 W/m²

Rpile.in: ok, -150 to 0 W/m²

Tcase.in: ok, -17 to +10 degC

Tdome.in (1,2,5): ok, -17 to +10 degC

Rlw.out: ok, 240-300 W/m²

Rpile.out: ok, -80 to +10 W/m²

Tcase.out: ok, -17 to +10 degC

Tdome.out (1,2,5): ok, -17 to +10 degC

soil.aux at E & W Slope (5,6)

Tsoil: ok, abc2, eslope5aux, river7 now frozen

Gsoil: ok, +4 (most) to 35 W/m² (River)

Qsoil: 8 (Eslope/River) to 30 (Hiland) %vol; expect values to go to 0 as soils freeze.

Cvsoil: ok, 5e5 (Wvalley, Eslope, River) to 1.8e6 (Playa, Wslope) J/(m³ degK); strange abc jump yesterday.